

61-16725

Friellingsdorf, H., Becker, K., and Heiss, R.
EXPLANATION OF THE DECLINE OF STRENGTH
IN HEAT-SEALED PLASTIC FILMS. Excerpt from
dissertation: Investigations of the Mechanical Strength
of Heat Sealed Plastic Films in Packing Technology.
(H. Friellingsdorf) Techn[ische] Hochschule, Munich.
25 Sep 60 [23]p. 8 refs.
Order from SLA \$2.60

61-16725

Trans. of Kunststoffe (West Germany) 1960, v. 50
[no. 3] p. 148-154.

DESCRIPTORS: *Plastic films, Mechanical properties,
Ethylenes, Polymers, *Seals, Containers, *Sealing
compounds.

Because the union of heat-sealed thermoplastic films
displays a strength of about 40 to 60% of that of the
not heat sealed union average, studies were under-
taken on hard PVC and polyethylene film in order to
(Materials--Sealants, TT, v. 8, no. 10) (over)

- I. Friellingsdorf, H.
- II. Becker, K.
- III. Heiss, R.
- IV. Title: Investigations ...
- V. Technische Hochschule,
Munich (West Germany)

Office of Technical Services

Calculation of the Two-Dimensional Nonsteady Temperature
Field in Heat-Sealed Thermoplastic Films, by H. Frielingsdorf.
GERMAN, per, Kunststoffe, Vol L, No 3, 1960, pp 154-156.

CSIRO/No 6502

Sci - Phys

Feb 64

250,480

Apparatus for Measuring the Permeability of
Plastic Films for Moist Gases, by H. Schröder,
O. Schröder, 20 pp.

GERMAN, per, Kunststoffe, Vol. 1, 1961, 1962,
pp 156-162.

XXXX 5th Group

Sci
Jan 68

175, 1173

Plato, G. and Schröder, G.
FLOW PROPERTIES OF HARD PVC. [1963] 6p.
 (figs. omitted) 10 refs.
 Order from SLA \$1.10

63-14167

Partial trans. of Kunststoffe (West Germany) 1960,
 v. 50, no. 3, p. 163-165.

DESCRIPTORS: *Polyvinyl chloride, Creep, Viscosity,
 Fused materials, Lubricants, Additives.

Numerous hard PVC mixtures were studied with the aid
 of a melt-viscosity testing apparatus which has been
 useful with other plastics. After a few changes in the
 apparatus, this equipment made it possible to obtain in
 simple fashion a meaningful reference number for the
 flow properties of such mixtures. Effects of the
 various kinds of PVC, as well as that of lubricant and
 stabilizer additives, on workability, can be measured
 in this way in laboratory testings. (Author)
 (Materials--Plastics, TT, v. 10, no. 5)

63-14167

I. Plato, G.
 II. Schröder, G.

Office of Technical Services

TT-64-14049

Spiro, Peter.

ELECTRO-FORMED HARD NICKEL MOLDS FOR
THE PROCESSING OF PLASTICS (Galvanoplastisch
hergestellte Hartnickel-Formen für die Kunststoff-
verarbeitung). Presented to the German Plastics Con-
vention, Düsseldorf, 21 Oct 59. [1964] [16p]
Order from SLA 51, 60 TT-64-14049

Trans. of Kunststoffe (West Germany) 1960, v. 50,
no. 3, p19-222 (p. 191-194)

I. Spiro, P.
II. Title German...

(Materials--Plastics, TT, v. 11, no. 12)

Office of Technical Services

Hann, G.
NEW HIGH SPEED WELDING METHOD FOR THER-
MOPLASTICS (Neues Schnellschweisverfahren für
Thermoplaste). [1961] [10]p. (foreign text included).
Order from SLA m\$1.80, pb\$1.80 61-10757

Trans. of Kunststoffe (West Germany) 1960, v. 50,
no. 4, p. 255-256.

"An electrically heated hand welding apparatus is de-
scribed where the heater coil is imbedded in ceram-
ics. Special joining tips and guided preheating tips
simplify the welding and increase the welding speed
substantially. The method is applicable for welding
rigid and soft PVC, polyethylene and polypropylene."

(Materials--Plastics, TT, v. 5, no. 10)

61-10757

1. Plastics--Welding
2. Title: Thermoplastics
1. Hann, G.

61-10757

61-10757

The Mechanism of the Thermal Degradation of
pvc, by J. Novak.

GERMAN, par, Kunststoffe, Vol L, No 5,
1960, pp 291-293.

CSIRO

Sel - Engr
Apr 62

190,347

63-14189

1. Wilski, H.

Wilski, H.
SPECIFIC HEAT OF POLYPROPYLENE. [1963] 5p.
(figs. omitted) 11 refs.
Order from SLA 51, 10

63-14189

Trans. of Kunststoffe (West Germany) 1960, v. 50,
no. 6, p. 335-336.

DESCRIPTORS: *Propenes, *Specific heat, Enthalpy,
Viscosity, Polyethylene plastics.

The specific heats and enthalpic of isotactic polypropy-
lenes (Hostalen PPH and Hostalen PPN)¹, both based
on 20°C., were measured at temperature intervals
between 0 and 300°C. (Author)

(Materials--Plastics, TT, v. 10, no. 5)

Office of Technical Services

68-12850

Frenz, Reinhold.

A PLASTIC HOUSE IN THE BUNGALOW STYLE.

[1962] 19p.

Order from K-H \$23.75

K-H 11959

Trans. of Kunststoffe (West Germany) 1960 [v. 50]
no. 6, p. 360-365.DESCRIPTORS: *Plastics, *Housing, Construction,
Design.

(Engineering--Civil, TT, v. 9, no. 10)

- I. Frenz, R.
- II. K-H-11959
- III. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

Elbers, Ferdinand and Fischer, Friedrich.
METHODS FOR PRACTICAL TESTS ON THE
STRESS CRACKING RESISTANCE OF DIFFERENT
TYPES OF POLYETHYLENES. [1961] 21p. 7 refs.
Order from SLA \$2.60 61-20018

Trans. of Kunststoffe (West Germany) 1960, v. 50,
no. 1, p. 435-470.

DESCRIPTORS: *Polymers, *Ethylenes, Fracture
(Mechanics), Stresses, Corrosion, Tensile properties,
Test methods, *Plastics.

A simple test method is described with which the
plastics manufacturer can form an objective opinion
about the tendency of a material to crack. (Author)

(Materials--Plastics, TT, v. 7, no. 1)

61-20018

- I. Elbers, F.
- II. Fischer, F.

Office of Technical Services

Schulz, R[olf] C., Vielhaber, H[orss] and Kern, W[erner].
INTRAMOLECULAR CYCLIZATION REACTIONS IN
POLY(METHYL VINYL KETONES). [1961] [9]p.
15 refs.
Order from SLA: ml\$1.80, ph\$1.80 61-10860

Trans. of Kunststoffe (West Germany) 1960, v. 50
[no. 9] p. 500-502.

The polymerization of methyl vinyl ketone by azobisisobutyronitrile and the structure of the polymers are discussed. Reactions of the polymeric ketone are described in which only one carbonyl group per fundamental unit reacts (reduction to secondary alcohol, oxime formation, Girard derivative). In a series of other reactions, poly(methyl vinyl ketone) reacts like a 1,5-diketone and enters into intramolecular cyclization reactions to various extents. Conditions were found under which intramolecular cyclization becomes the main reaction, without any cross-linking.
(Author)

61-10860

1. Ketones--Polymerization
2. Vinyl polymers--Chemical reactions

- I. Schulz, R. C.
- II. Vielhaber, H.
- III. Kern, W.

143681

Office of Technical Services

(Chemistry--Organic
TT, v. 5, no. 12)

Characterization of Macromolecular Substances,
by H. Hellfritz.
GERMAN, per, Kunststoffe, Vol 50, 1960, pp 502-
512.
NTC-71-12646-07C

Nov 71

63-14190

Majer, Josef.
EFFECT OF MELTING CONDITIONS ON CRYSTALLI-
ZATION OF POLYPROPYLENE. [1963] 9p. (figs.
tables omitted) 15 refs.
Order from SLA \$1.10

I. Majer, J.

Trans. of Kunststoffe (West Germany) 1960, v. 50,
no. 10, p. 565-567.

DESCRIPTORS: *Propenes, *Crystallization, Melting,
Temperature, Nuclei.

The effect of melting conditions on the crystallization
mechanism of polypropylene (Isotherm 140° C) was
studied. On raising the melting temperature while
retaining the duration of melting the remaining nuclei
were removed from the melt in steps, as shown by the
increasing value of the Avrami constant and also the
specific volume of the "amorphous" phase. By sample
(Physics--Solid State, TT, v. 10, no. 5) (over)

Office of Technical Services

Welding Technique for Plastics Sheetting, by
R. Valedka.
GERMAN, per, Kunststoffe, Vol 50, 1960,
pp 590-593.
NTC 71-13871-13H

Feb 72

Auxiliary Agents for High-Frequency Welding, by
B. Kowald.
GERMAN, per, Kunststoffe, Vol 50, 1960,
pp 593-595.
NTC 71-13610-13H

Feb 72

Influence of Different Fillers on the
Efficiency of Soundproofing Measures,
by H. Thurn.

GOVERNMENT USE ONLY

GERMAN, per, Kunststoffe, Vol 50, No 11,
1960, pp 606-612.

NASA TT F-12,007

Sci-Mat
June 69

383,149'

~~FAHRENHEIT~~ Leaching-Out of Lead From Lead-Stabilized
PVC Pipes, by H. Niklas, W. Meyer.

GERMAN, per, Kunststoffe, No 1, 1961,

NZDIA

Sci-Engr

Aug 63

341,527

Welding of Semi-Finished Polypropylene
Products.

GERMAN, per, Kunststoffe, No 2, 1961,

NEDIA

Sci-RESEARCH Engin
Aug 63

344, 511

TT-64-10856

WELDING OF POLYPROPYLENE SHEET, TUBE AND
ROD (Schweißen von Polypropylen-Halbzeug).
25 Jun 63] [5p] (foreign text included)
Order from SLA \$1.10

TT-64-10856

Trans. of Kunststoffe (West Germany) 1961, v. 51,
no. 2, p. 104-105.

(Machinery Manufacturing, TT, v. 12, no. 2)

Office of Technical Services

62-14292

Friedrich, M. and Hinrichs, B. R.
BEHAVIOR OF PVC AND POLYETHYLENE PIPES
DURING FIRES IN BUILDINGS (Verhalten von
Rohrleitungen aus PVC und Polyäthylen bei Bränden)
[1962] [27] p. 13 refs.
Order from S.I.A. \$2.60

62-14292

Trans. of Kunststoffe (West Germany) 1961, v. 51,
no. 3, p. 126-132.

DESCRIPTORS: *Buildings, *Fires, *Plastic pipes,
Pipes, Heat tolerance, Flames, Tests, Plastics,
Ethylenes, Polymers, Vinyl chlorides.

In order to determine the heat-and flame-resistance of
PVC and polyethylene pipes, laboratory tests were
carried out to study the effect of a definite infrared
radiator and, in a large-scale test in a two-story
dwelling house, the effect of burning gasoline was in-
vestigated. The plastic pipes above the plaster layer
(Engineering--Safety, TT, v. 8, no. 2) (over)

I. Friedrich, M.
II. Hinrichs, B. R.

Office of Technical Services

62-14293

Bauer, W.
AGING OF PLASTICS FROM A TECHNICAL ASPECT.
[1962] 8p.

Order from SLA \$1.10

62-14293

Trans. of Kunststoffe (West Germany) 1961, v. 51,
no. 3, p. 133-134.

DESCRIPTORS: *Plastics, *Age factors, Stresses,
Mechanical properties.

Changes in plastics with time and the effects produced
thereby are discussed. It is established that aging
characteristics cannot be given as material values,
but only as operational expectancy values connected
with use for certain parts. (Author)

(Materials--Plastics, TT, v. 8, no. 1)

I. Bauer, W.

Office of Technical Services

Behavior of Bacterial Mixtures Toward
Polyethylenes of Various Mean Molecular
Weights, by A. Schwartz.
GERMAN, per, Kunststoffe, Vol 51, 1961,
pp 317-319.
HTC 72-10041-111

Apr 72

62-14312

PROPERTIES AND PROCESSING OF POLYPROPYLENE (Eigenschaften und Verarbeitung von Polypropylen). [1962] [15]p. (foreign text included) 3 refs. Order from SLA \$1.60 62-14312

Trans. of Kunststoffe (West Germany) 1961, v. 51, no. 6, p. 338-340.

DESCRIPTORS: Plastics, *Polymers, *Propenes, Physical properties, Density, Viscosity, Stresses, Permeability, Molding, *Plastic films, *Synthetic fibers.

As, in the German language, reports on polypropylene have been sparse and isolated, we endeavor [here] to abstract the American publication in more detail.
(Author)

(Materials--Plastics, TT, v. 8, no. 9)

Office of Technical Services

Testing Glass Fiber Reinforced Polyester
Resins for Defects by Means of Dyestuffs, by
B. Alt.
GERMAN, per, Kunststoffe, Vol. 51, No 7, 1961,
pp 397-399.
NTC-71-12645-11I

Nov 71

Oberst, Hermann, Bohn, Lothar, and Linhardt, Friedrich.

62-14441

VIBRATION-DAMPING PLASTICS IN NOISE CONTROL. Paper presented at the German Plastics Convention [30. 9. 60] 12-14 Apr 61. [1962] 41p. 40 refs.

- I. Oberst, 11.
- II. Bohn, 11.
- III. Linhardt, 11.
- IV. Title: German...

Order from SIA \$4.50

62-14441

Trans. of Kunststoffe (West Germany) 1961, v. 51 [no. 9] p. 495-502.

DESCRIPTORS: *Noise, Control, *Reduction, *Plastics, Vibration, Damping, Metals, Sheets, Coatings.

A number of examples serve to illustrate the present state of the art. (Author)

(Materials-Plastics, IT, v. 8, no. 4)

Office of Technical Service

Application of the Dielectric Method for Investigation
Plastics, by G. Langbein, 22 pp.

W. NEUMAN, per, Kunststoffe, Vol. LX, 1961, pp 503-508

AN-SCI-Tr-481

Sci - NE Mat & Met

Aug 63

341, 327

Heat Conductivity of Plastics as a Function of
Structure, Temperature and Pretreatment,
by K. Eiermann, 27 pp.
GERMAN, per, Kunststoffe, Vol LI, No 9, 1961,
pp 512-517. 9225787
AEC-SC-T-64-1623

Sci-Phys
Dec 64

269,418

Thermal Conductivity of Synthetic Material
and its Dependence upon Structure, Temperature
and Pretreatment, K. Eiermann.

GERMAN, per, Kunststoffe, Vol 51, 1961,

pp 512-7.

SLA TR-66-11010

331, 578

Sci - Materials
Jul. 67

63-17906

Schreyer, G.
PLASTICS IN OPTICS. Aug 63, 15p. 123 refs.
Order from ES \$12.00

Trans. of Kunststoffe (West Germany) 1961, v. 51,
no. 9, p. 569H.

DESCRIPTORS: *Optics, *Plastics.

I. Schreyer, G.
II. Stutz, Erich, Akron, Ohio

(Materials--Plastics, TT, v. 10, no. 7)

Office of Technical Services

63-14040

Weissenfels, Franz.

PHENOL RESIN FOAM MATERIALS. 5 May 62, 11p.
(figs. tables [refs.] omitted).

Order from SLA \$1.60

63-14040

I. Weissenfels, F.

Trans. of ~~Kunststoffe~~ (West Germany) 1961, v. 51,
no. 11, p. 698-702, 708.

DESCRIPTORS: *Expanded plastics, Foams, *Phenolic
plastics, Production, Physical properties, Processing,
*Heat resistant plastics, Thermal insulation.

The article deals with the production of phenol resin
foams, their qualities which are important to use, and
fields of application found for them up to the present
time. (Author)

(Materials--Plastics, TT, v. 10, no. 6)

Office of Technical Services

The Stationary Absolute Measurement of
Thermoelectricity of Commercial High
Polymers in the 20-100C Temperature
Range, by W. Knappe.
GERMAN, per, Kunststoffe, Vol 51, 1961
pp 707-8.

331, 580

Sci - Physics
Jul 67 Jul 67

TT-65-13739

Field 20L

Novak, J.
CONDUCTOMETRIC DETERMINATION OF THE THERMAL
STABILITY OF PVC. 10p, 2refs.
Order from SLA: \$1.10 as TT-65-13739

Trans. of Kunststoffe (West Germany) v51 n11 p712-4
1961.

NR 664

63-22949

Orthmann, H. J.
DETERMINATION OF THE MELT VISCOSITY OF
POLYETHYLENE WITH A PENETROMETER. [1963]
10p
Order from ATS \$11.50 ATS-06Q72G

Trans. of Kunststoffe (West Germany) 1962, v. 52,
no. 1, p. 15-18.

DESCRIPTORS: *Polyethylene plastics, Melting,
Viscosity, Chemical analysis, Penetration.

(Materials--Plastics, TT, v. 10, no. 12)

1. Title: Penetrometer
- I. Orthmann, H. J.
- II. ATS-06Q72G
- III. Associated Technical
Services, Inc., East
Orange, N. J.

Office of Technical Services

Some Properties of Plastics for Electrical
Engineering, by A. Hersping.
GERMAN, per, Kunststoffe, Vol 52, No 2, 1962,
pp 9-73
GB/54/1941

Sci -
Jul 67

335,015

63-17180

Jasching, W.
DEGRADATION AND STABILIZATION OF POLYVINYL
CHLORIDE. [1963] 14p.
Order from ATS \$19.75 ATS-19067G

Trans. of Kunststoffe (West Germany) 1962, v. 52,
no. 3, pp. 455-463.

DESCRIPTORS: *Polyvinyl chloride, Stabilization,
Degradation.

(Materials--Plastics, TT, v. 10, no. 1)

- I. Jasching, W.
- II. ATS-19067G
- III. Associated Technical
Services, Inc., East
Orange, N. J.

Office of Technical Services

Production of Nets From Thermoplastics,
GERMAN, per, Kunststoffe, Vol 52, No 8,
1962, pp 492-494.
NTC-70-12750-11I

Feb 72

Fillers for Epoxy Resins. 1. by G. Weigel
GERMAN, per Kunststoffe-Plast. Vol. . No. .
1962, pp 498-502, 505-507
GB 334/T.7 - 130/-

Sci -
Aug 67

130-304

Acoustic Properties of Soft and Semihard
Polyurethane Foam Materials, by H. W. Paffrath,
W. Schmidt, 16 pp.

GERMAN, per. Kunststoffe, Vol LII, No 10, 1962,
pp 599-603. 9217208

ASC-SC-Tr-514

Sci - Phys
Jan 64

248,390

Processing of PVC without Permeation by Using
Ammoniumbromide, by Henry A. Eckert,

6 pp.

CHLORIDE, per, Monetstone, Vol LII, Oct 1962,

IP 605-626. 9228315

AMM-10-1-65-710

Sci-Chem

Apr 65

20,430

Novel Procedure for the Study of the Freezing Range
of Unsaturated Polyester Resins, by L. Turunen.
GERMAN, per, Kunststoffe, Vol LII, No 11, 1962,
pp 672-674.
NASA TT Fk-9091

Sci-Biol & Med *Cher*
Nov 64
U.S. GOVERNMENT ONLY

269,355

Acid Nature and Cation Bonding of Phenol
Resins With Ortho-Structure, by Kurt Hultsch,
Wolfgang Hesse, 23 pp.
GERMAN, par, Kunststoffe, Vol 53, No 3, 1963,
pp 166-172. F911105467
AEC SC-T-67-0905

324,312

Sci - Chemistry
Apr 67

TT-63-20577

Bauer, W.
**THE MOLD-FILLING PROCESS IN INJECTION MOLD-
 ING OF THERMOPLASTICS** (Der Formfüllvorgang beim
 Spritzguss von Thermoplasten). [1963] [34p] (foreign
 text included) (4 figs omitted) 3 refs
 Order from SLA \$3.60 TT-63-20577

I. Bauer, W.

Trans. of Kunststoffe (West Germany) 1963, v. 53,
 no. 1, p. 210-217. (Abstract available)

DESCRIPTORS: *Thermoplastics, Processing, *Mold-
 ing, Injection, Molding materials, Polyethylene plastics

In order to comprehend theoretically the mold-filling
 process in injection molding of thermoplastics a model
 representation imitating the theory of wave propagation
 was developed. Speculation was particularly centered
 on the expansion of flowing front in the mold cavity, and
 how much the really appearing flowing front area corre-
 sponds to the theoretically expected flowing front area
 (Materials--Plastics, TT, v. 11, no. 3) (over)

Office of Technical Services

Fillers for Eposy Resins. 2. by G. Weigel.
GERMAN, per Kunststoffe-Plast. Vol. 10, No. 4,
1963, pp 391-398
GB 334/T.9 - 95/-

Sci -
Aug 67

~~SECRET~~

Crosslinked Polyethylene Filled With Carbon Black,
by E. Behr, 16 pp.

GERMAN, per, Kunststoffe, Vol LIII, No 8, 1953,
pp 502-509.

ATS 34Q72G

Sci-Chem

April 64

TT-65-11135

Field 111

Sterli, R.

EPOXY RESINS FOR THE ELECTRICAL INDUSTRY
(Epoxyharze fuer die Elektroindustrie). Introductory and
final paragraphs not translated. 17p, (foreign text included)
15 refs.

Order from SLA: \$1.60 as TT-65-11135

Trans. of Kunststoffe (West Germany) v53 n8 p541-6 1963.

I. Sterli, R.

ATS-552176

MR 606

Laminates From Glass Silk quilted Bat and Glass
Fiber Papers, by Rudolf Wolf.

GERMAN, per, Kunststoffe, Vol 53, No 9, 1966,
pp 597-605.

AEC SC-T-66-716

Sci/ Materials

Apr 67

597,605

High Polymer of Polyofinen for Packing,
by H. E. Roder.
GERMAN, per, Kunststoffe, Vol 53, 1965,
pp 638-642.
ACSI X-7885
ID 2204040865

Sci/Chemistry
Nov 65

290,574

Influence of Thermoelasticity and Thermo-
Plasticity of the Treatment of Acryl Glasses,
by G. Schreyer, P. R. Szigeti, 22pp
GERMAN, per, Kunststoffe, Vol 53, 1963,
No 10, pp 703-710
SLA TT-64-14985

Sci - Mat
June 67

327,499

An Improved Apparatus for the Determination of
the Permeability of Synthetic Films to Dry and
Wet Gases, by K. Becker.

GERMAN, per, Kunststoffe, vol. 54, 1964,
pp. 155-159.

NTC 70-16961-111

July 1971

An Improved Instrument for Determining
Permeability of Plastic Films and Sheetings
to Dry and Moist Gases, by K. Hecker.
GERMAN, Kunststoffe, Vol 54, 1964

331, 570

Sci - Materials
Jul 67

Improved Apparatus for the Determination of the
Permeability of Synthetic Films to Dry and Wet Gases,
by K. Deckert.

GERMAN, per, Kunststoffe, No 54, 1964, 1-191.
CSIRO/No 7542

Sci -

Aug 57

336,933

New Methods of Ultra-Sound Welding of
Plastics.

GERMAN, per, Kunststoffe, Vol LIV, No 11, 1964,
pp 720.

ACSI I-7864

ID 2204040765

Sci - Phys, Eng
Jan 66

294,237

Silane Coupling Agent and Alkali-Containing Glass
Fiber Surfaces, by Hans Weisbart, Wertheim am Main,
16 pp.

GERMAN, per, Kunststoffe, Vol LIV, No 12, 1964,
pp 60-66.

CIA/FDD XX-1643
NO FOREIGN DISSEM

Sci - M/M
Jan 65
USIB Internal Use Only

270,483

Manufacture of Threaded Parts by Injection
Molding. Tab Gating, Central Pinpoint Gating,
by H. Boeger
GERMAN, per, Kunststoff und Gummi, Vol 2,
No 3, 1963, pp 118-120
NTS 71-15304-11I

mar 72

KLASTOFF UND GUMMI
1964 V3 M11 P424-425

70-10505-131 <0>

ORDER FROM NYC

Several New Application Fields for Silicones, by
P. H. Morel, 23 pp. (AF-700726)

GERMAN, H., Kunststoffstoffe Plastics, Zurich, 1954/
1955, pp 33-40.

ATIC F-TB-8372/V

Sci - Chemistry
Oct 1956 CTS/dex

40, 140

Determination of Thermal Conductivity Values of
Plastics, by O. H. Nehring, 13 pp.
GERMAN, per, Kunststoffe-Plastics, Vol IV, No 3, 1957,
pp 265-268. 9226574
AEC-SCL-T-1641

Sci-Mat & Met
Jan 65

271,790

On the Polymer of TPA Anhydride, by F. A. Henglein,
H. E. Tarrach.

GERMAN, per, Kunststoffe-Plastics, Vol 6, No 1,
1959, pp 5-8.
ETC 69-11461-111

Sci-Hat
July 69

387,143

KUNSTSTOFFE-PLASTICS
1954 Nr. 2 P100-102
1963 Nr. 2 P100-102

70-12020-111 <=> 0.1
20-12020-111 <=> 0.1

ORDER FROM NTC

Symposium on Micromolecular Substances. I. Physical
Chemistry of Macromolecular Substances. Polymeriza-
tion and Condensation in the Complex State, by
F. Zetst.

GERMAN, per, Kunststoffe-Plastics, Vol VI, No 6,
1959, pp 297-301.

ATS 165-GJ

Sci
Nov 59

100,402

Preparation of Polyalkylsilicic Acid Esters,
by H. Hopff, R. Egli.
GERMAN, per, Kunststoff-Plastics, Vol VI,
pp 433-441, 1959. 9697296
DDC RSIC 595

Sci-Chem
Nov 65

292,874

Schenkel, G.
PROCESSES AND MACHINERY LAYOUT FOR PLAS-
TIC FILM PRODUCTION. [1962] 20p.

Order from ATS \$25.75

ATS-88P62G

ATS-723-65

Trans. of Kunststoffe-Plastics (Switzerland) 1960, v. 7,
no. 2, p. 179-192.

DESCRIPTORS: *Plastic films, Production, Machines.

(Materials--Plastics, TT, v. 9, no. 1)

62-34203

- I. Schenkel, G.
- II. ATS-88P62G
- III. Associated Technical
Services, Inc.,
East Orange, N. J.

Office of Technical Services

Plastic-Coated Metal, by H. Hoerner.

GERMAN, per, Kunststoffe Plastics, Vol IX,
No 1, 1962, pp 32-35.

BIBI 3079

Sol - M/M
Feb 63

222,503

KUNST- UND PRESSTOFFE
1937 VI P7-12

70-28122 <*>

5.41

ORDER FROM NYC

Leysieffer, G.
THE CHEMISTRY OF THE SYNTHETIC RESINS
MADE OF PHENOL AND CRESOL. [1959] 6p.
Order from SLA ml \$1.80, ph \$1.80 60-14455

Trans. of Kunst- und Pressstoffe (Germany) [1937]
no. 1, p. 14-16.

60-14455

1. Plastics--Properties
1. Leysieffer, G.

142,915

Office of Technical Services

(Unannounced)

Prestorf, G. SHRINKAGE OF PLASTICS. [1959] 2p. (2 tables omitted). Order from SLA m\$1.80, ph\$1.80 60-14456 Trans. of Kunst- und Presstoffe (Germany) [1937] no. 1, p. 13. (Unannounced)	60-14456 1. Plastics - Mechanical properties 1. Prestorf, G. 142,914 Office of Technical Services
--	---

Development and Properties of Plastics, by
Richard Spranger, 4 p.

GERMAN, par, Kunst- und Presstoffe, 1937, No 1,
pp 36-37.

^S
SLA 60-10211

Sci
Apr 60
Vol XXI, No 3

112,020

Erk. S.
THERMAL CONDUCTIVITY OF SYNTHETIC RESINS.
[1959] [3]p. (1 table omitted) 2 refs.
Order from St.A mt\$1.80, ph\$1.80 60-14457

Trans. of Kunst. und Presstoffe (Germany) [1937]
no. 1, p. 37-38.

60-14457

1. Plastics--Thermal properties
1. Erk. S.

142, 913

(Unannounced)

Office of Technical Services

Weigel, Wolfgang

STRUCTURAL INVESTIGATIONS OF PLASTICS. II.
EXAMPLES OF APPLICATIONS. 26 Apr 38, 19p.

(47 refs. omitted); 17 refs.

Order from St.A m\$2.40, ph\$3.30

60-18958

Trans. of Kunst- und Pressstoffe (Germany) [1937]
no. 2, p. 2-10.

175,885

60-18958

1. Plastics--Structural analysis

1. Weigel, W.

Office of Technical Services

(Unannounced)

Nirsche, Rud.
SIGNIFICANCE OF THE CLASSIFICATION OF SYN-
THETIC MATERIALS FOR NON-ELECTRICAL PUR-
POSES. [1959] Sp. 4 refs.
Order from SLA m\$1.80. ph\$1.80 60-14454

Trans. of Kunst- und Pressstoffe (Germany) [1937]
no. 2, p. 25-26.

60-14454

1. Plastics--Classification
1. Nirsche, R.

142,916

Office of Technical Services

(Unannounced)

Measuring Device for Determining the Thermal
Conductivity of Synthetic Plastics, by S. Erk,
4 pp.

GERMAN, par, Kunst u Pressstoffe, Vol. II, 1937,
p 38.

SLA Tr 57-2138

Sci.

Jul 58

67,982

Determination of the Creep Properties of
Grilon and Other Thermoplastic Materials,
by R. Gähler
GEHMAN, per, Kunststoffe Rundschau, Vol 3,
1956, pp 247-254.
NLL Ref: 6075.461 (1965)

Sci-Methods & Equipment
July 68

360,880

Instructions on Blowing and ^HHollow Bodies, by N. A.
Eckhardt.

GERMAN, per, Kunststoff-Rundschau, Vol II, No 9, Sep
1955, pp 317-321.

ASLIB-GB39

Sci

Jul 59

92,675

Signer, R. and Hochull, A.
AUTOMATIC MULTISTAGE FRACTIONATION OF
POLYDISPERSE MACROMOLECULAR SUBSTANCES.

[1963] 5p

Order from ATS \$7.25

ATS-11Q68G

Trans. from Kunststoff-[Rundschau] (West Germany)
1956, v. 3, no. 2.

DESCRIPTORS: Plastics, *Polymers, Colloids,
*Fractionation, Automatic.

(Materials--Plastics, TT, v. 10, no. 10)

63-17184

I. Signer, R.
II. Hochull, A.
III. ATS-11Q68G
IV. Associated Technical
Service, Inc.,
East Orange, N. J.

Office of Technical Services

-Nylon 6 Polymerlitate as a New
Material for Tube Manufacture, by W.
Stiner.

GERMAN, per, Kunststoff Rundschau^U, Vol III,
No 11/12, 1956, pp 412, -423.

SLA 57-3089

Bc1

71,407

Aug 58

Forms From Plastics, by K. H. Krause, 11 p.

GERMAN, per, Kunststoff-Rundschau, 1957, No 7,
pp 293-300.

SLA 59-15968

Sci
Dec 59
Vol 2, No 6

103,958

ATS

1481-GJ JOINING ORGANIC MATERIALS IN A HIGH-FREQUENCY
FIELD, R. Köhler, Kunststoff-Rundschau 5, No. 9,
385-9 (1958). Physical & chemical fundamentals of
process.
3650 W; 1 T; 6 F; 9 R \$13.35 (\$2.95)

63-10579

I. Krause, K. H.

Krause, K. H.
USE OF TRIALKYL BORANES AND OXIDATION
INTERMEDIATE PRODUCTS AS CATALYSTS FOR
VINYL POLYMERIZATIONS. 12 Oct 60, 9p. 10 refs.
Order from SLA \$1.10 63-10579

Trans. of Kunststoff-Rundschau (West Germany) 1959,
v. 6, p. 139-141.

DESCRIPTORS: *Vinyl radicals, Polymerization,
*Catalysts, *Boron compounds, Alkyl radicals,
*Organoboranes, Oxidation, Plastics, *Vinyl plastics,
*Acrylic resins, Synthesis.

(Materials--Plastics, TT, v. 10, no. 3)

Office of Technical Services

Behnke, Edith.

EPOXID MONOMERS AS POLYMERIZATION
INITIATORS. [1961] [11]p. (10 refs. omitted).

Order from SLA \$1.60

62-10035

Trans. of Kunststoff-Rundschau (West Germany) 1959,
v. 6, June, p. 217-220.

DESCRIPTORS: *Epoxides, Epoxy resins, Plastics,
Resins, Polymerization, Stimulation.

The work presented reports on polymerization reactions with the use of epoxide monomers as initiators. To illustrate particularly the unsaturated polyester resins we show the differences compared to the usual peroxide curing, giving technical data and mentioning examples of application as well as giving particulars to clarify the reaction. (Author)

(Materials--Plastics, TT, v. 7, no. 9)

62-10035

I. Behnke, E.

Office of Technical Services

Majer, J., Belusa, J., and Lanikova, J.
KINETICS OF CRYSTALLIZATION OF LOW-PRES-
SURE POLYETHYLENE. [1960] 4300 words 32 refs
Order from CTS(Chem) \$17.20 CTS(Chem)-168
subsequent copies \$3.60/ea.

Trans. of Kunststoff-Rundschau (West Germany) 1960,
no. 7, p. 39-44.

143,059

(Chemistry--Organic, TT, v. 5, no. 3)

61-12139

- I. Ethylene polymers--
Crystallization
- I. Majer, J.
- II. Belusa, J.
- III. Lanikova, J.
- IV. CTS(Chem)-168
- V. Chemical Translating
Service, Palo Alto, Calif.

Office of Technical Services

TT-64-10925

Majer, J.
SECONDARY CRYSTALLIZATION OF POLYPROPYLENE. 21 Oct 63 [6p] 10 refs
Order from SLA \$1.10

J. Majer, J.

TT-64-10925

Trans. of Institut für Rundschau (West Germany) 1963,
v. 10, p. 9-11.

(Materials--Plastics, TT, v. 11, no. 11)

Impact-Resistant Rigid PVC in Building, by K.
Fischer.
GERMAN, per, Kunststoff-Rundschau, Vol. 15, No. 1,
1963, pp 9-63
GB39/HO 1735

Sci -

Aug 67

350,492

The Application of PVC to the Construction Field
and Experience with Processing From the French
Point of View. I. Extrusion of Hard PVC, by M.J.
Moreaux, 22pp
GERMAN, per, Kunststoff-Rundschau, Vol 11,
1964, No 4, pp 209-214
SIA TT-64-30089

Sci - Mat
June 67

327,495

Development of a 24 hour test for Checking the
UV Resistance of Rigid PVC, by G.A. Nisbet, R.J.
Meyer.

GERMAN, per, Kunststoff-Rdsch. No 5, 1964, pp 1-170
GB 39/

Sci -
Aug 67

116,739

Development of a 24 Hour Test for Checking the UV
Resistance of Rigid PVC, by G.A. Nisbet, R.J. Meyer
GERMAN, per Kunststoff-Rdsch. No. 5, 1968, pp 270-272
GB 59

Sci -
Sep 67

Thinius, K[urt].
THE EUCOLLOID SYSTEM AND PLASTICIZERS, I.
[1963] 28p
Order from K-H \$28.00 K-H 5309 f

Trans. of Kunststoffe Technik [sic] 1952, v. 4,
no. 10, p. 471-476.

DESCRIPTORS: *Plasticizers, *Colloids, Valence.

(Chemistry--Physical, TT, v. 10, no. 12)

63-22824

- I. Title: Eucolloid system
- I. Thinius, K.
- II. K-H-5309f
- III. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

KUNSTSTOFFTECHNIK UND KUNSTSTOFFANWENDUNG 1941
1940 V10 P249-257 70-21751 <*>
1941 V11 N3 P77-82 70-20074 <*>
1941 V11 N6 P165-170 70-21066 <*>

ORDER FROM NYC

Spinning, Stretching Compression During Viscose
Processing, by A. Wehrung.

GERMAN, per, Kunstseide u Zellwolle, Vol XXVII,
1949, pp 195-202.

INSDOC-2076

Sci.
Aug 59

94,539

---Investigations on the Effects of Moistures
on External Renderings of Experimental and
Comparison Buildings in Villingen and
Tuttlingen.

GERMAN, per Kurzber Bauforsch., Vol. 4, No. 1
1953, pp 80-81
GB 334/CT.38 - 30/-

Sci 7
Aug 57

338-366

Analysis of the Time Factor and the Expected
Mortality of the Longicorn Beetle When sub-
jected to Chemical Treatment, by A. Korting.
GERMAN, per, Kurzberichte Aus Der Bauforschung.
Vol 5, No 7, 1964, pp 116-117.
GISRO/No. 7148

Sci -
Jul 67

334.862

Brief Description of Panzerfaust, 3 pp.
FOR OFFICIAL USE ONLY.

GERMAN, bk, Kurzbeschreibung der Panzerfaust,
84 mm, 1959.

ACSI H-8032-B
ID 2142234

ELHR - Germany
MIL
Jul 61.

158, 555

The Diseases of the Macula, by W. Gilbert, 15 pp.
GERMAN, mono, Kurzes Handbuch der Ophthalmologie,
5 ed, pp 551-556.
CFSTI TT-61-~~1421~~4279

Sci - B/M
Jul 66

305,803

SLA TT 61-14278' 5 ed

TT-61-14163

Erggeier, H.
REFRACTION AND ACCOMMODATION AND THEIR
DISTURBANCES (Die Refraktion und die Akkommodation
mit ihren Störungen). 15p.
Order from SLA \$1.60

I. Erggeier, H.

TT-61-14163

Trans. of mono. Kurzes Handb[uch] d[er]
Ophthalmologie, n. p., 1932, v. 2, p. 536-643.

(Biological Sciences--Physiology, TT, v. 12, no. 7)

Multi-Component Polymerizations; Copolymers of
Hydrocarbons and Acid Imides and Copolymers
From Olefinic Benzenes and Olefinic Dicarboxylic
Acid Imides, by Franz Kainer, 6 pp.

GERMAN, monograph, Kurzes Handbuch der Poly-
merisationstechnik, Vol II, 1941, pp 157-161.

SLA 60-14311

Sci
Feb 62
Vol. III, No 11

184, 875

Introduction to Modern Biochemistry, by P. Karlson.
GERMAN, bk, Kurzes Lehrbuch der Biochemis fuer
Mediziner und Naturwissenschaftler, 1962.
Dept of Interior
QP514 K 15

Sci - Chem
Apr 64

254,565